

**APPLICATION**

**FOR UNITED STATES LETTERS PATENT**

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**SPECIFICATION**

TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN THAT I, **Michael J. Carrow**, a citizen of the United States, have  
invented a new and useful adjustable firearm support system of which the following is a  
specification:

1  
2  
3 **Adjustable Firearm Support System**  
4  
5

6 **CROSS REFERENCE TO RELATED APPLICATIONS**  
7

8 Not applicable to this application.  
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10  
11

12 **STATEMENT REGARDING FEDERALLY**  
13 **SPONSORED RESEARCH OR DEVELOPMENT**  
14

15 Not applicable to this application.  
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17

18 **BACKGROUND OF THE INVENTION**  
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21

22 **Field of the Invention**  
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24 The present invention relates generally to firearm supports and more specifically it  
25 relates to an adjustable firearm support system for adjustably and accurately supporting a  
26 firearm.  
27  
28

29 **Description of the Related Art**  
30

31 Firearm supports have been in use for years for aligning scopes and sights for  
32 firearms. Conventional firearm supports are typically comprised of a gun rest that is

1 stationary and non-adjustable. The user positions the front portion of the firearm (e.g.  
2 rifle, pistol, etc.) upon the stationary firearm support and then must manually adjust  
3 the position of the firearm by moving the firearm itself.  
4

5 The main problem with conventional firearm supports is that they do not allow  
6 for accurate and adjustable support of a firearm. Another problem with conventional  
7 firearm supports is that they may not be portable because of their relative large size  
8 and weight.  
9

10 While these devices may be suitable for the particular purpose to which they  
11 address, they are not as suitable for adjustably and accurately supporting a firearm.  
12 Conventional firearm supports may not be adjustable nor capable of allowing fine  
13 adjustment of the position of the firearm.  
14

15 In these respects, the adjustable firearm support system according to the present  
16 invention substantially departs from the conventional concepts and designs of the prior  
17 art, and in so doing provides an apparatus primarily developed for the purpose of  
18 adjustably and accurately supporting a firearm.  
19  
20

1

2                   **BRIEF SUMMARY OF THE INVENTION**

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4           In view of the foregoing disadvantages inherent in the known types of firearm  
5 supports now present in the prior art, the present invention provides a new adjustable  
6 firearm support system construction wherein the same can be utilized for adjustably  
7 and accurately supporting a firearm.

8

9           The general purpose of the present invention, which will be described  
10 subsequently in greater detail, is to provide a new adjustable firearm support system  
11 that has many of the advantages of the firearm supports mentioned heretofore and  
12 many novel features that result in a new adjustable firearm support system which is not  
13 anticipated, rendered obvious, suggested, or even implied by any of the prior art  
14 firearm supports, either alone or in any combination thereof.

15

16           To attain this, the present invention generally comprises a base and a support  
17 unit pivotally attached to the base. The support unit pivots upon the base to adjustably  
18 support the firearm along a horizontal plane. The support unit also allows for coarse  
19 vertical adjustment of the firearm. The base includes a plurality of support members  
20 adjustably attached to the base for adjusting the vertical position of the base.

21

22           There has thus been outlined, rather broadly, the more important features of the  
23 invention in order that the detailed description thereof may be better understood, and  
24 in order that the present contribution to the art may be better appreciated. There are  
25 additional features of the invention that will be described hereinafter and that will form  
26 the subject matter of the claims appended hereto.

27

28           In this respect, before explaining at least one embodiment of the invention in  
29 detail, it is to be understood that the invention is not limited in its application to the

1 details of construction and to the arrangements of the components set forth in the  
2 following description or illustrated in the drawings. The invention is capable of other  
3 embodiments and of being practiced and carried out in various ways. Also, it is to be  
4 understood that the phraseology and terminology employed herein are for the purpose  
5 of the description and should not be regarded as limiting.

6  
7 A primary object of the present invention is to provide an adjustable firearm  
8 support system that will overcome the shortcomings of the prior art devices.

9  
10 A second object is to provide an adjustable firearm support system for  
11 adjustably and accurately supporting a firearm.

12  
13 Another object is to provide an adjustable firearm support system that is  
14 portable and lightweight.

15  
16 An additional object is to provide an adjustable firearm support system that  
17 may be utilized for various sizes and types of firearms including rifles and pistols.

18  
19 A further object is to provide an adjustable firearm support system that allows  
20 for both vertical and horizontal adjustment of the line of sight for a firearm.

21  
22 Other objects and advantages of the present invention will become obvious to the  
23 reader and it is intended that these objects and advantages are within the scope of the  
24 present invention.

25  
26 To the accomplishment of the above and related objects, this invention may be  
27 embodied in the form illustrated in the accompanying drawings, attention being called  
28 to the fact, however, that the drawings are illustrative only, and that changes may be

- 1 made in the specific construction illustrated and described within the scope of the
- 2 appended claims.

1  
2                   **BRIEF DESCRIPTION OF THE DRAWINGS**  
3

4           Various other objects, features and attendant advantages of the present  
5 invention will become fully appreciated as the same becomes better understood when  
6 considered in conjunction with the accompanying drawings, in which like reference  
7 characters designate the same or similar parts throughout the several views, and  
8 wherein:  
9

10           FIG. 1 is an upper perspective view of the present invention.  
11

12           FIG. 2 is an exploded upper perspective view of the present invention.  
13

14           FIG. 3 is a top view of the present invention.  
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16           FIG. 4 is a disassembled top view of the present invention.  
17

18           FIG. 5 is a top view of the base.  
19

20           FIG. 6 is a side view of the present invention.  
21

22           FIG. 7 is a front view of the present invention.  
23

24           FIG. 8 is a rear view of the present invention.  
25

26           FIG. 9 is side view of the present invention supporting a rifle in a first position.  
27

28           FIG. 10 is a side view of the present invention supporting a rifle in a second  
29 position.

## DETAILED DESCRIPTION OF THE INVENTION

### *A. Overview*

Turning now descriptively to the drawings, in which similar reference characters denote similar elements throughout the several views, FIGS. 1 through 10 illustrate an adjustable firearm support system 10, which comprises a base 20 and a support unit 50 pivotally attached to the base 20. The support unit 50 pivots upon the base 20 to adjustably support the firearm 14 along a horizontal plane. The support unit 50 also allows for coarse vertical adjustment of the firearm 14. The base 20 includes a plurality of support members 30 adjustably attached to the base 20 for adjusting the vertical position of the base 20.

### *B. Base*

The base 20 preferably has a front portion, a rear portion 24 and a handle opening 26 as shown in Figures 4 and 5 of the drawings. The base 20 preferably has a Y-shaped structure as further shown in Figures 4 and 5 of the drawings.

The base 20 preferably includes at least two front legs 22 extending from a front portion of the base 20. The front legs 22 each include at least one of the support members 30 as shown in Figures 1 through 5 of the drawings. The front legs 22 preferably extend outwardly from the base 20 at an angle as shown in Figures 4 and 5 of the drawings.

### *C. Support Members*

A plurality of support members 30 are adjustably attached to the front portion and the rear portion 24 of the base 20 as shown in Figures 1 through 5 of the drawings. The support members 30 are preferably threadably connected to the base 20 in a vertical manner for allowing vertical adjustment of the base 20 as best shown in



1 Figures 6 through 10 of the drawings. The support members 30 are each preferably  
2 comprised of a threaded shaft that is in threaded engagement with the base 20.

3  
4 Each of the support members 30 preferably include a locking collar 32 for  
5 selectively locking a desired vertical position with respect to the base 20 as best  
6 illustrated in Figures 6 through 8 of the drawings. The support members 30 each  
7 preferably include a pad member 34 for engaging a surface as illustrated in Figures 6  
8 through 8 of the drawings. The support members 30 each also preferably include a  
9 handle for allowing rotation of the legs 22.

#### 10 11 **D. Support Unit**

12 The support unit 50 is pivotally attached to the base 20 about a pivot axis. The  
13 support unit 50 is capable of supporting a firearm 14 such as a rifle or a pistol. The  
14 support unit 50 includes a pivot axle 59 that is rotatably retained within the base 20  
15 about the pivot axis as shown in Figure 4 of the drawings.

16  
17 The support unit 50 preferably includes a pair of side members 52 and a support  
18 portion 56 movably positioned between the side members 52 as best illustrated in  
19 Figures 1 and 2 of the drawings. The support member is adjustable in a vertical  
20 manner for adjusting the vertical position of the front portion of a firearm 14. The  
21 support portion 56 preferably has a cutout (e.g. V-shaped, U-shaped, etc.) for receiving  
22 a firearm 14. The side members 52 each preferably include a side slot 54 that each  
23 receive a support adjuster 58 that is attached to opposing sides of the support portion  
24 56.

#### 25 26 **E. Pivot Adjuster**

27 The pivot adjuster 40 is attached to the base 20 and connected to a rear portion  
28 24 of the support unit 50 for pivoting the support unit 50 about the pivot axis as shown  
29 in Figures 2 and 4 of the drawings. The pivot adjuster 40 preferably includes a pivot

1 pin 42 extending upwardly that is received by a support slot 51 within the support unit  
2 50 as shown in Figure 4 of the drawings. The pivot adjuster 40 is preferably  
3 comprised of a threaded shaft with a threaded collar threadably positioned upon the  
4 threaded shaft wherein the pivot pin 42 is attached to the threaded collar.

5  
6 ***F. Operation of Invention***

7 In use, the user positions the base 20 in a desired location. The user then  
8 positions the firearm 14 upon the support unit 50. If an elongate firearm 14 is used  
9 such as a rifle (Figures 9 and 10), a rear support 12 may be required to adequately  
10 support the firearm 14. The support portion 56 is vertically adjusted to a desired  
11 elevation. The user then fine tunes the vertical adjustment of the firearm 14 by  
12 adjusting one or more of the support members 30. The user may also adjust the  
13 support unit 50 along the horizontal plane by adjusting the pivot adjuster 40. After the  
14 firearm 14 is accurately aligned with a target, the user is then able to fire the firearm  
15 14 while positioned upon the support unit 50. The user is then able to adjust the scope  
16 or sight accordingly and then repeat the above process.

17  
18 What has been described and illustrated herein is a preferred embodiment of the  
19 invention along with some of its variations. The terms, descriptions and figures used  
20 herein are set forth by way of illustration only and are not meant as limitations. Those  
21 skilled in the art will recognize that many variations are possible within the spirit and  
22 scope of the invention, which is intended to be defined by the following claims (and  
23 their equivalents) in which all terms are meant in their broadest reasonable sense  
24 unless otherwise indicated. Any headings utilized within the description are for  
25 convenience only and have no legal or limiting effect.